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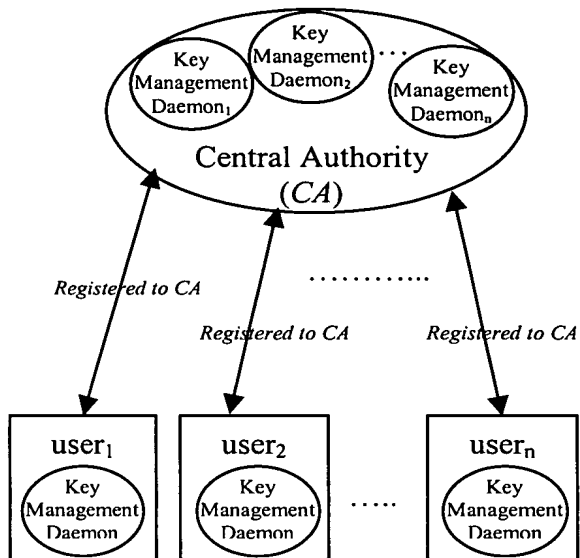


FIG. 1a

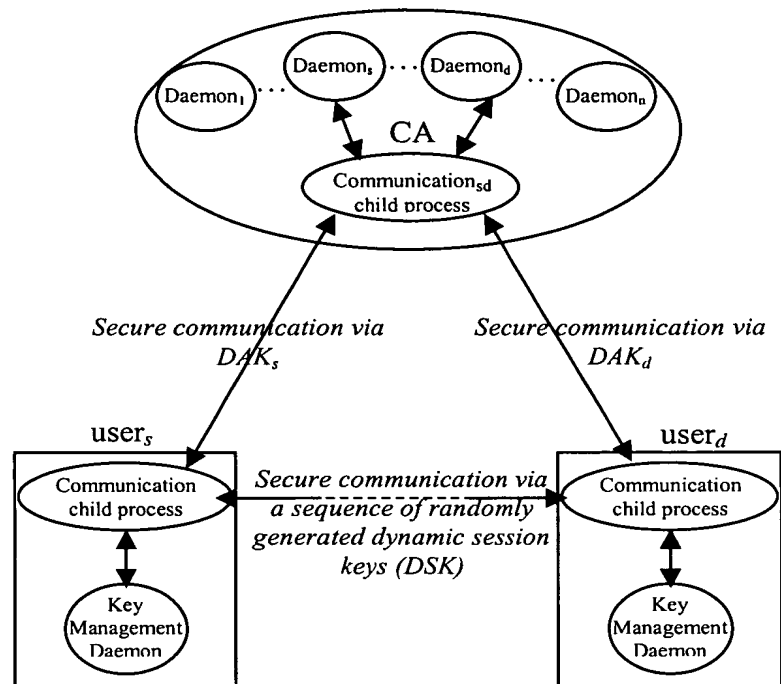


FIG. 1b

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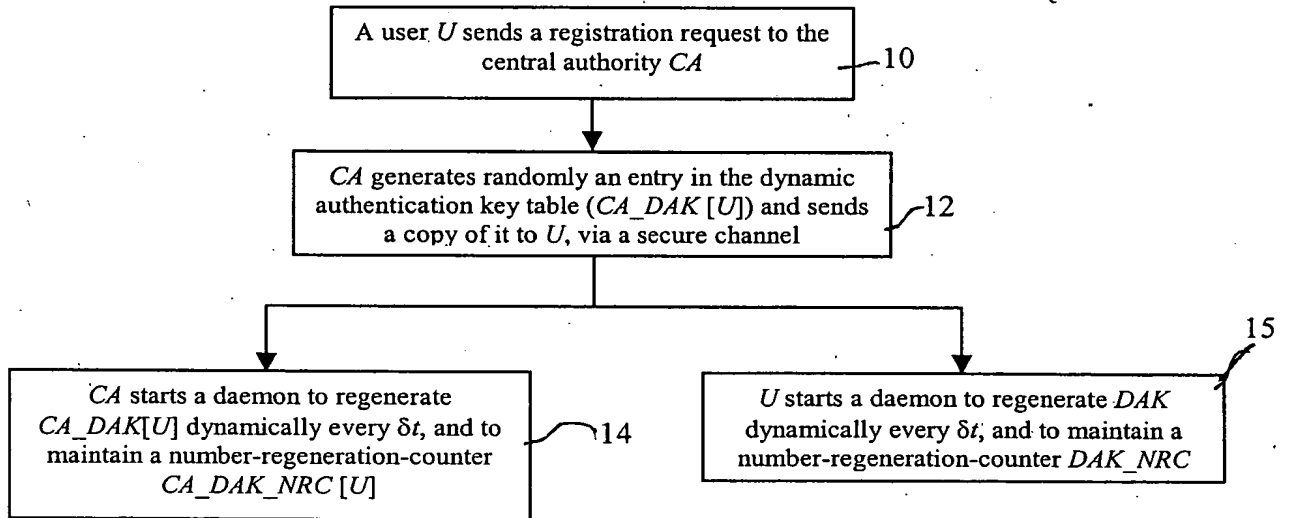


FIG. 2

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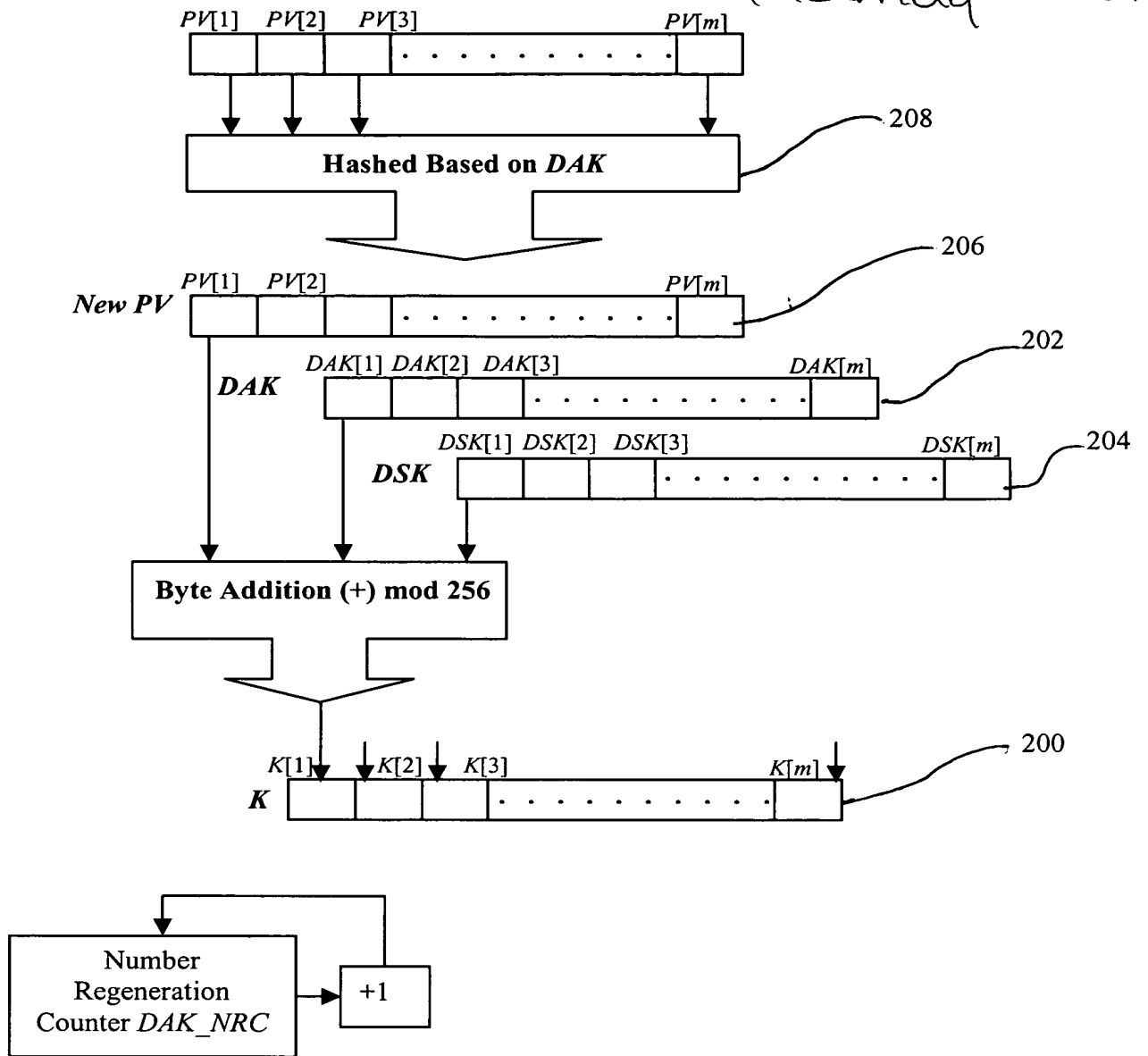


FIG. 3a

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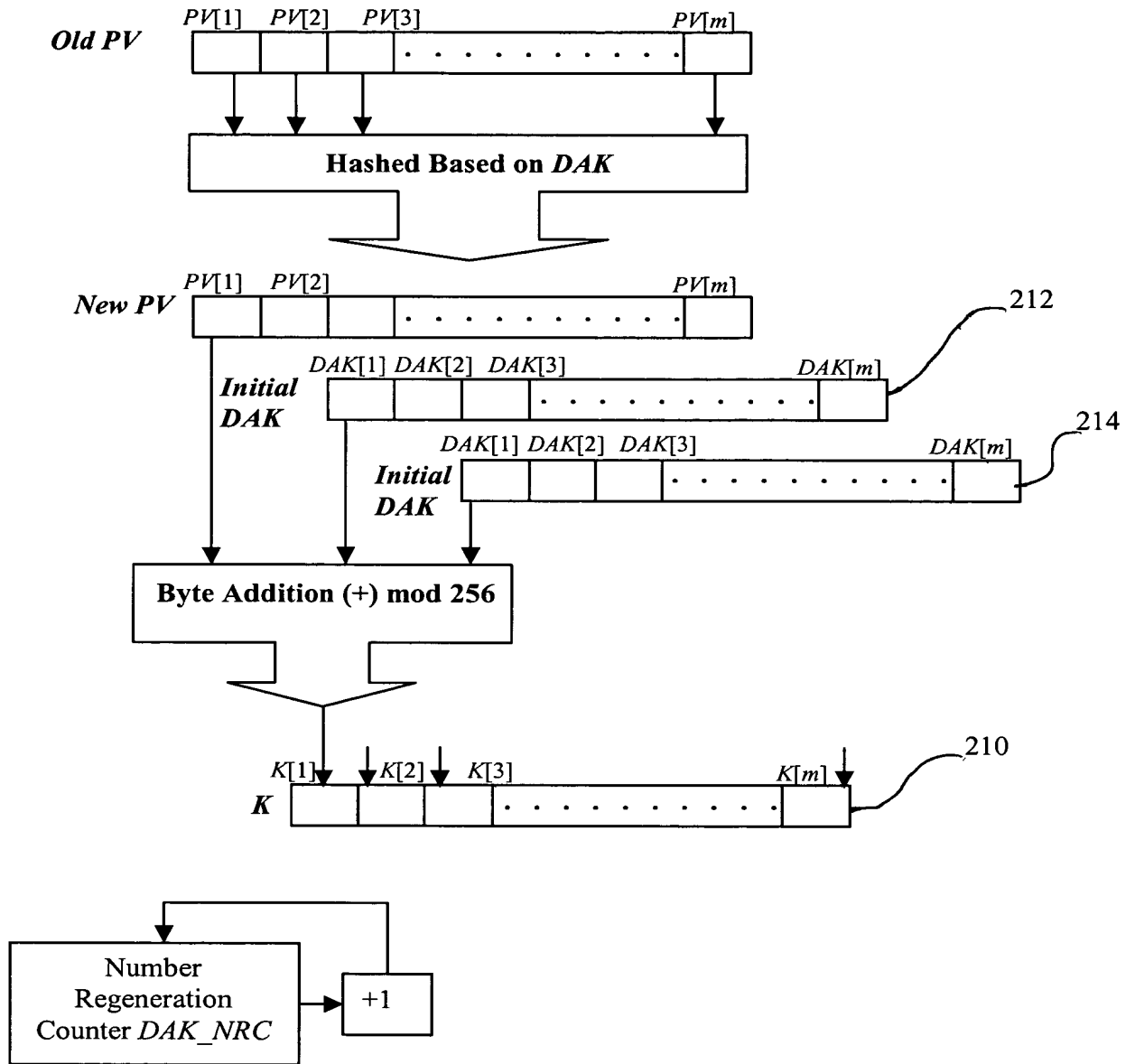


FIG. 3b

Old PV

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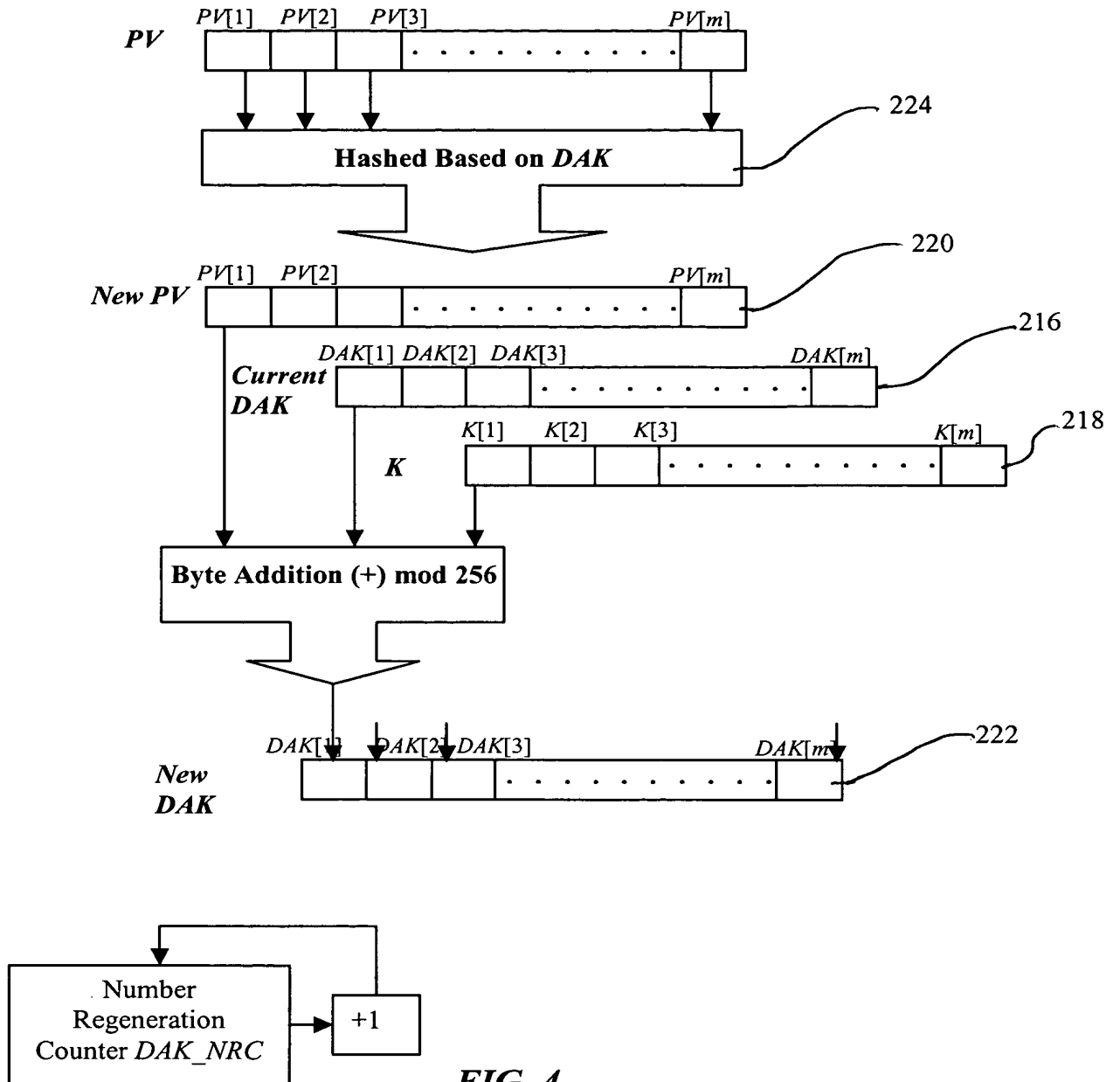


FIG. 4

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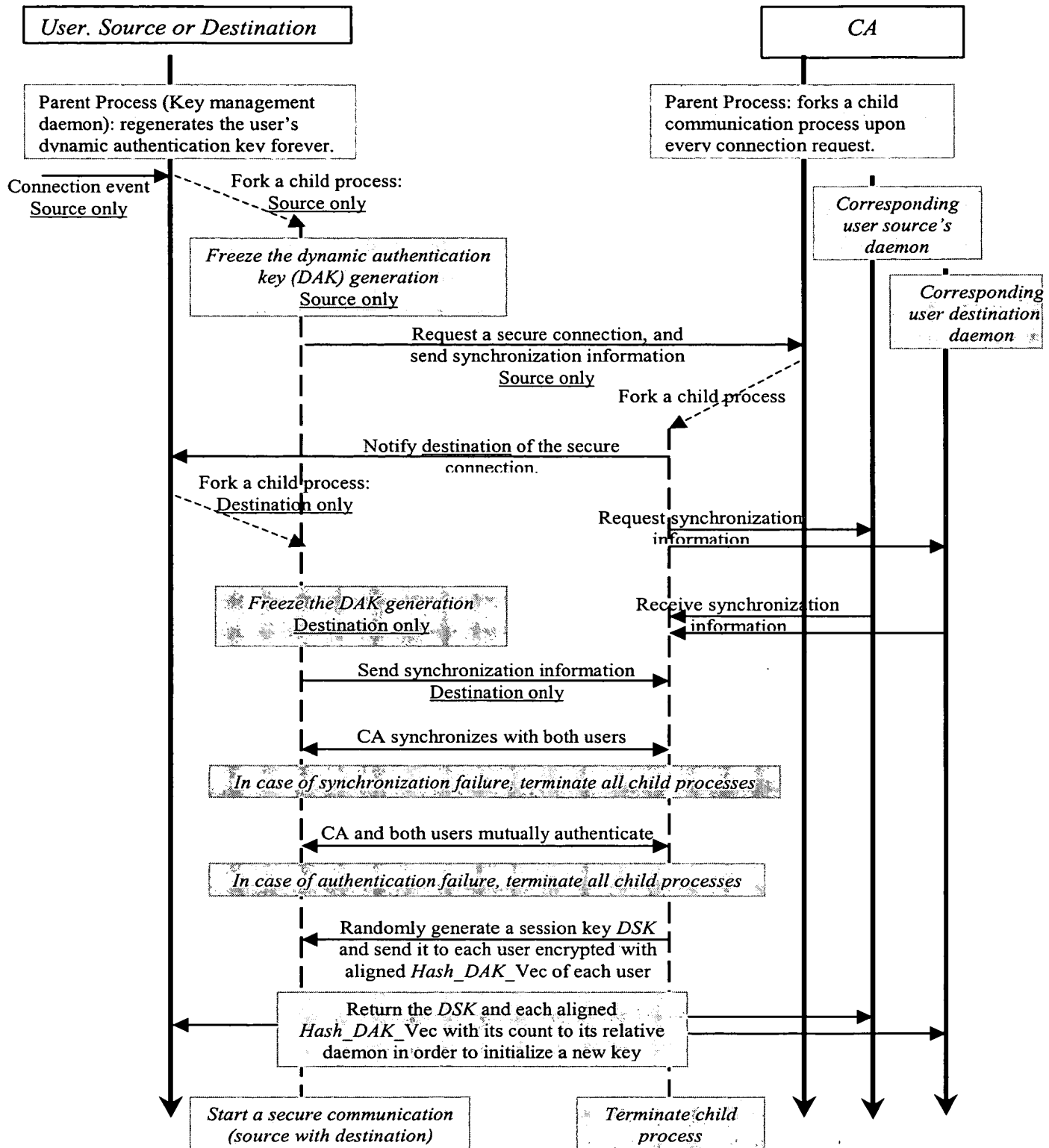


FIG. 5

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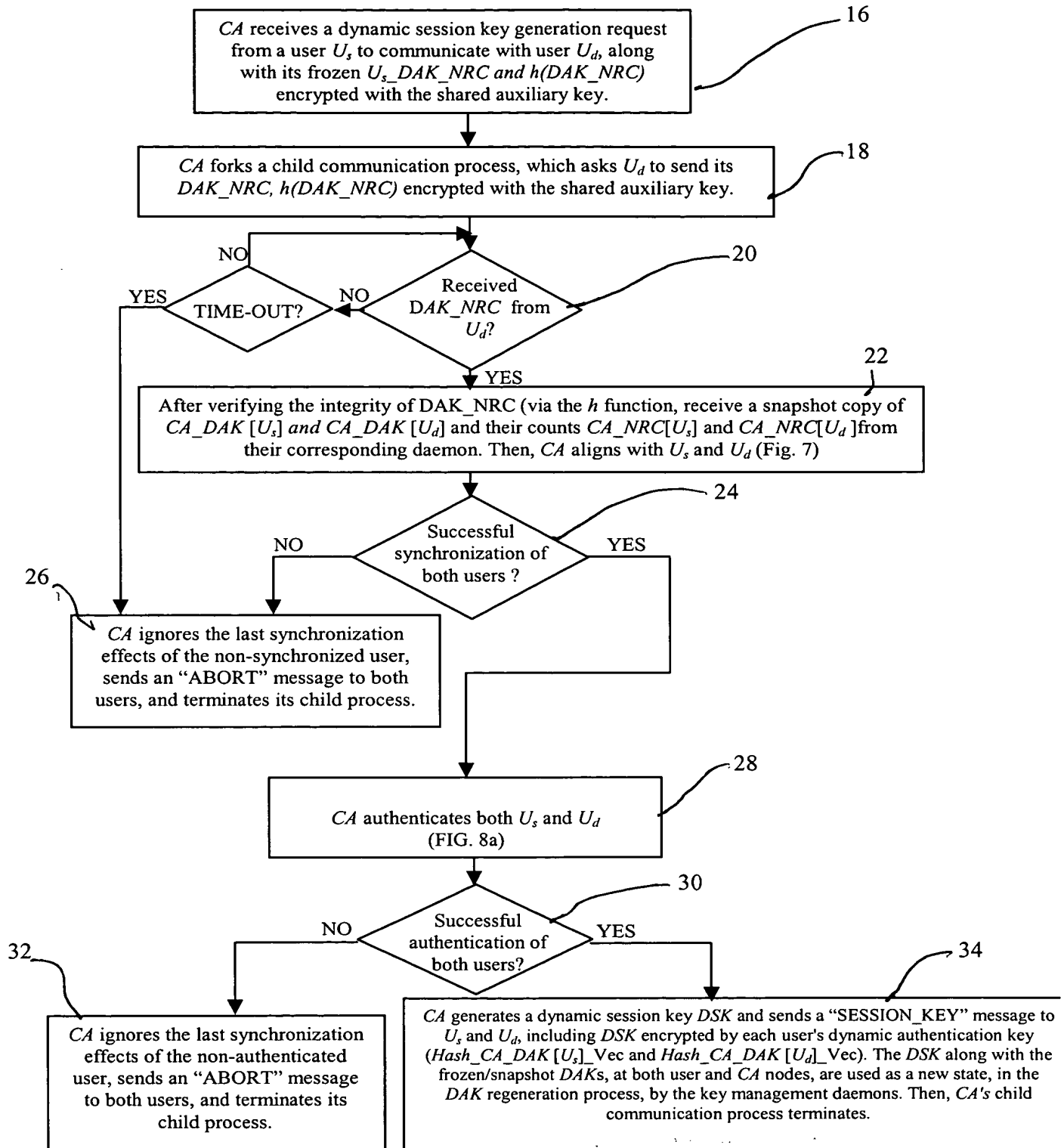


FIG. 6

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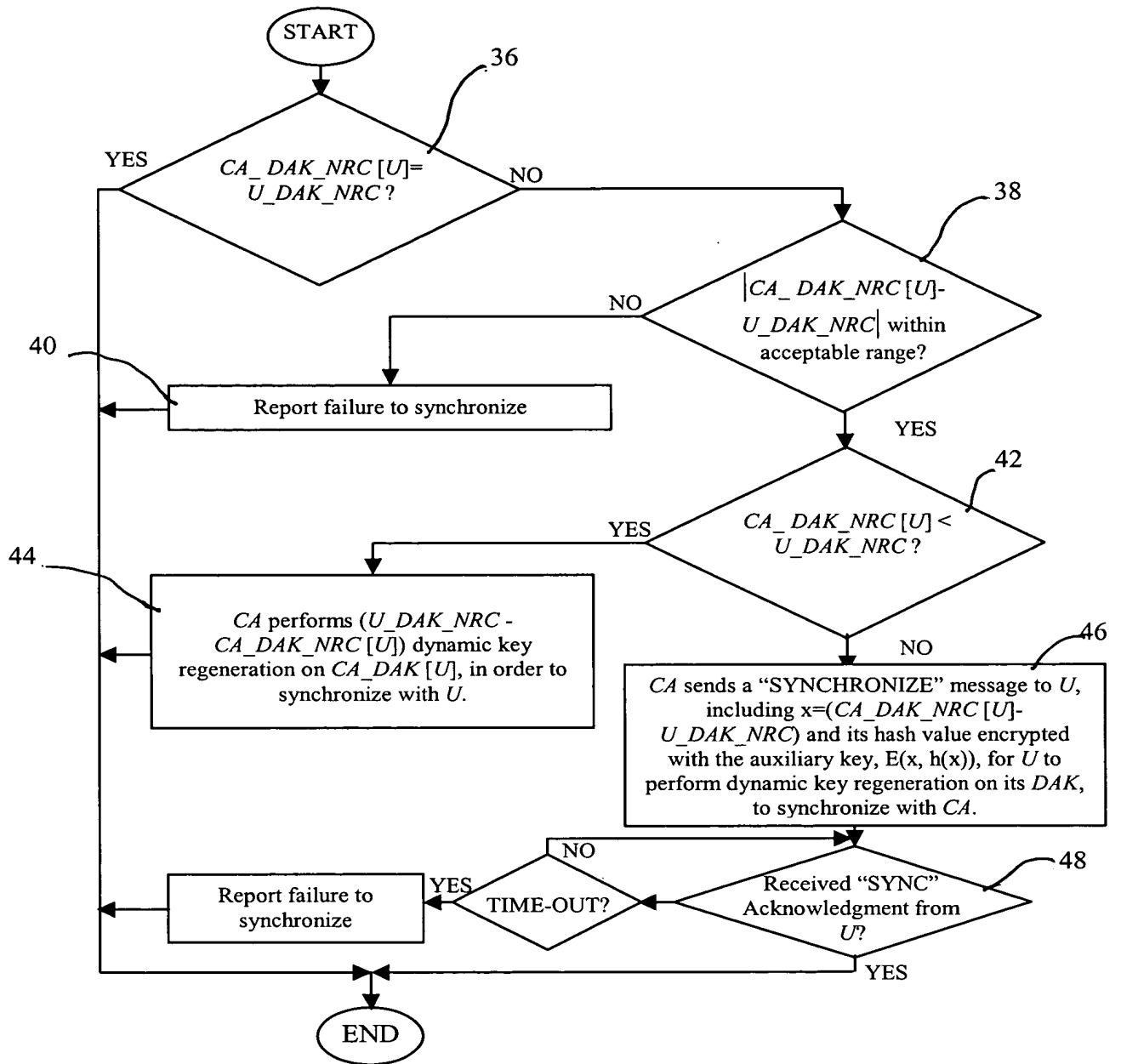


FIG. 7

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CA generates nonce N and sends $(E_1(N), E_2(N))$ to U including "AUTHENTICATE" message (FIG. 14), where $E_1(N)$ and $E_2(N)$ are the encryption of N using $Hash_CA_DAK[U]_{Vec_1}$ and $Hash_CA_DAK[U]_{Vec_2}$, respectively.

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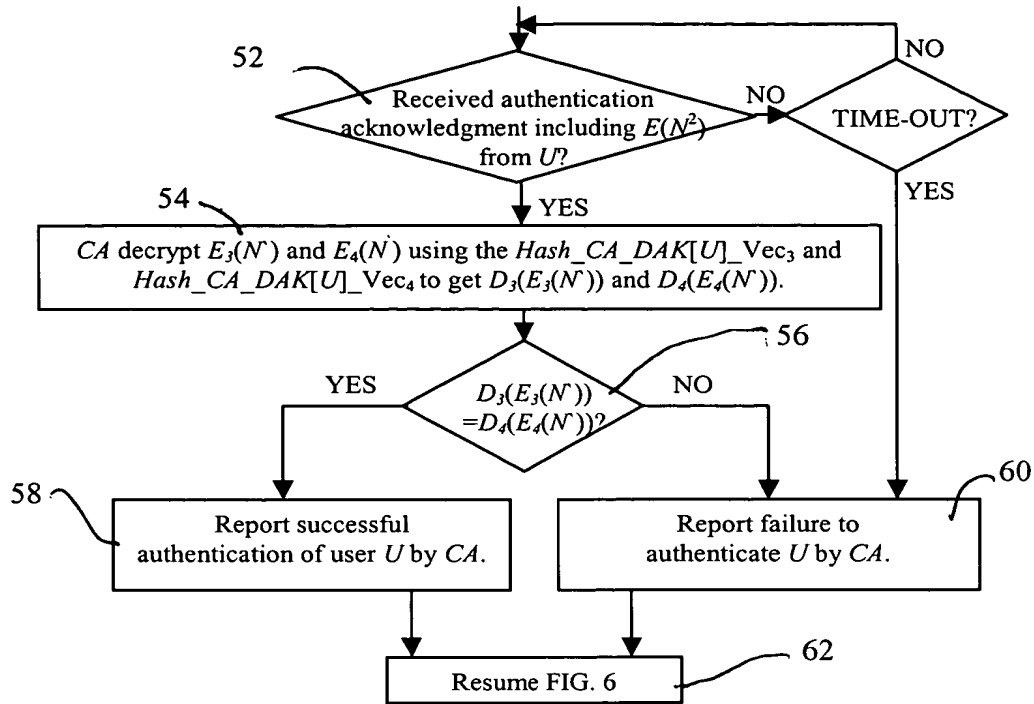


FIG. 8a

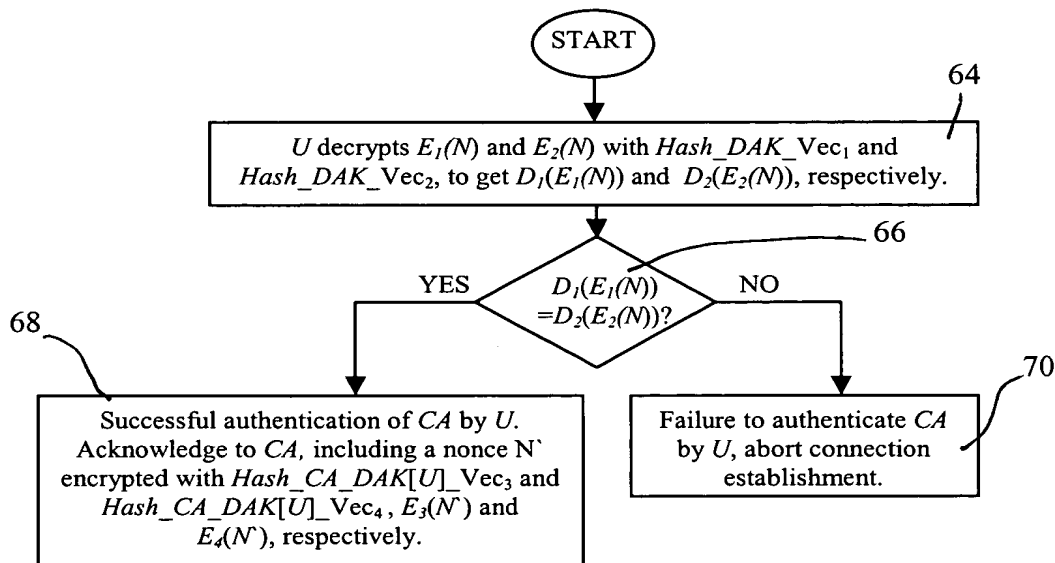


FIG. 8b

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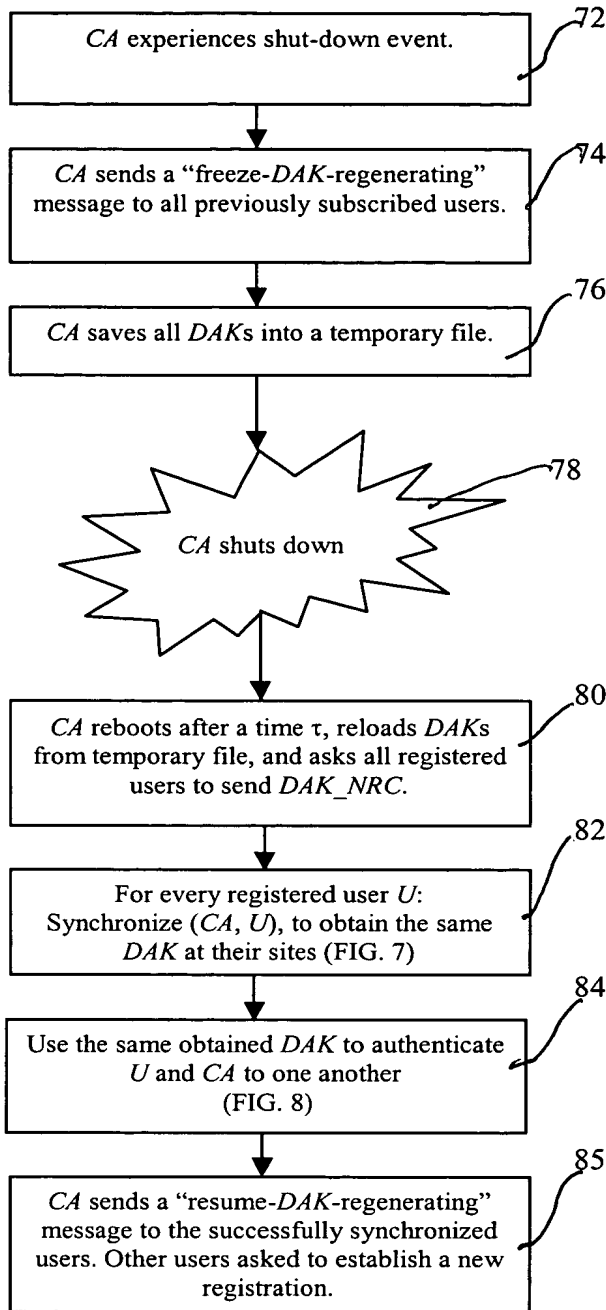


FIG. 9a

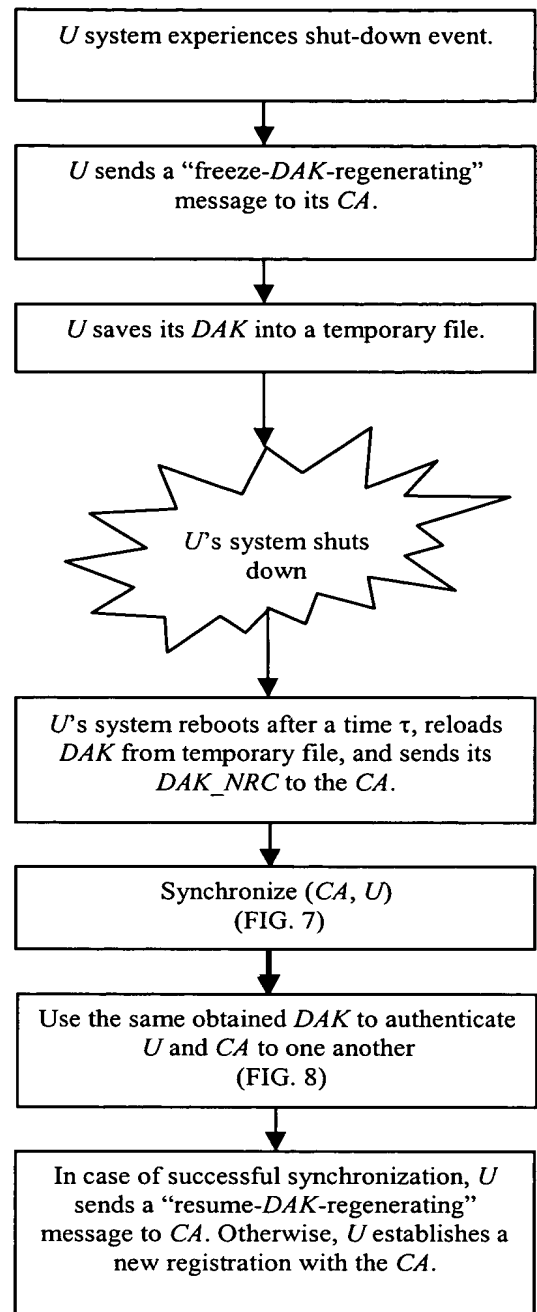


FIG. 9b

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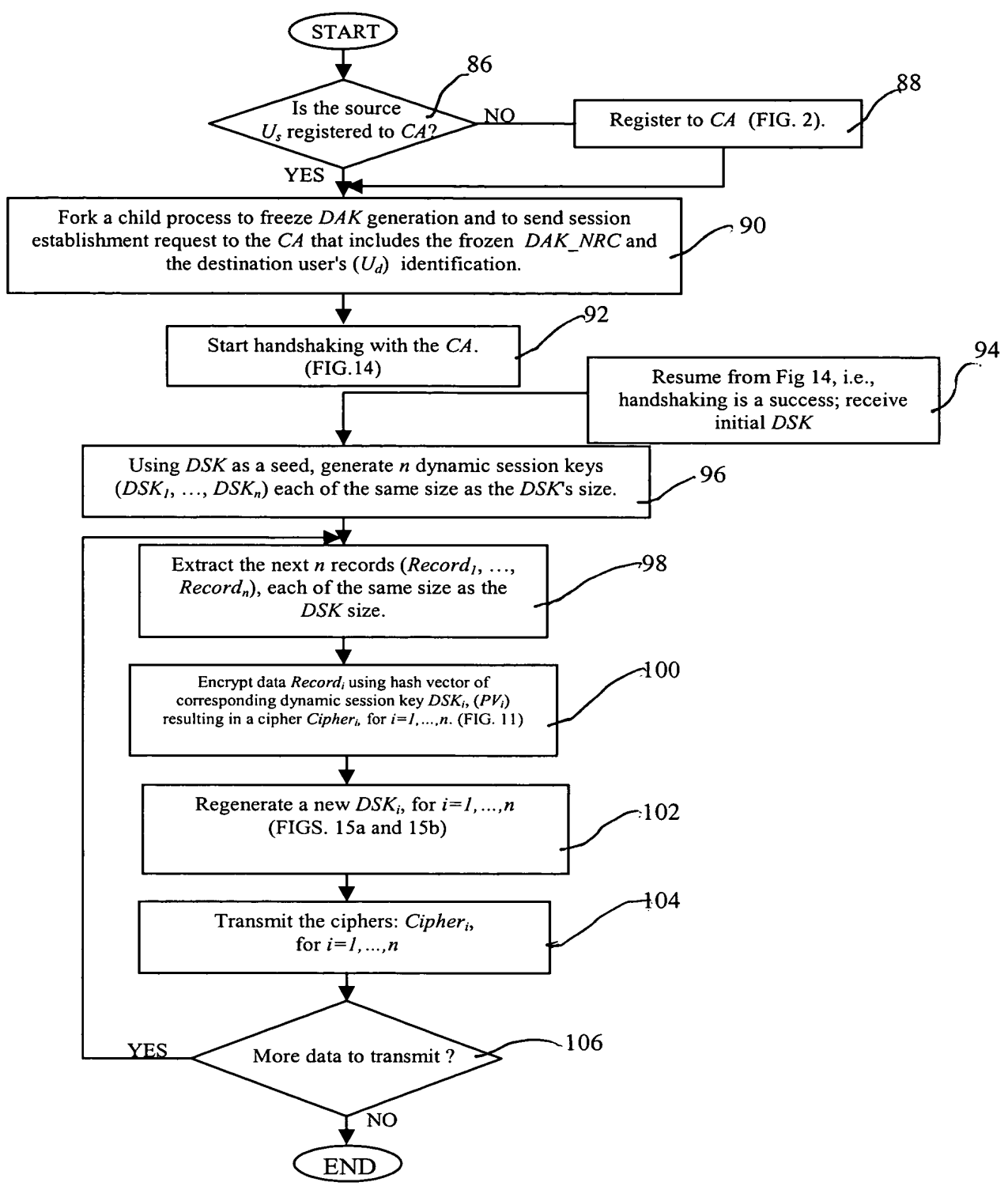


FIG. 10

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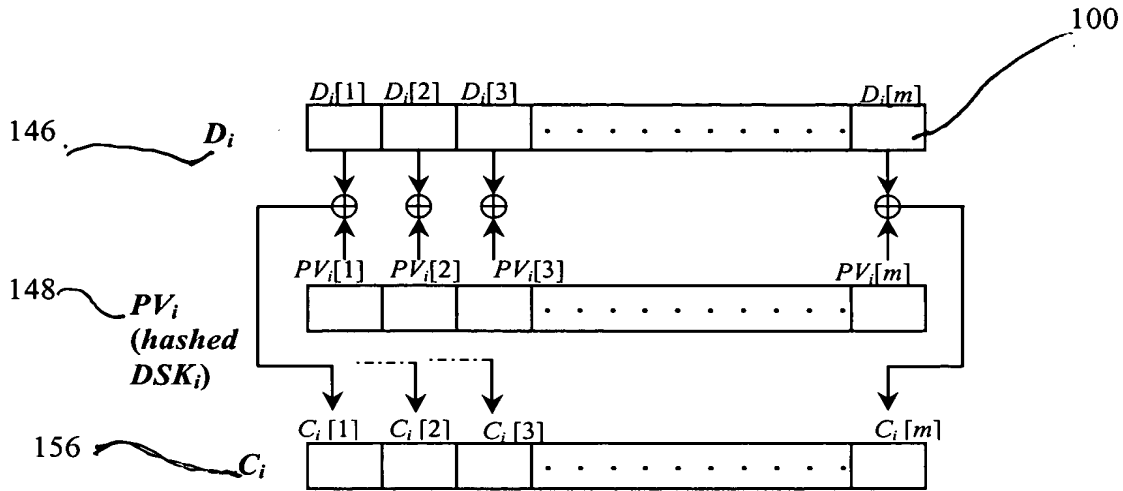


FIG. 11

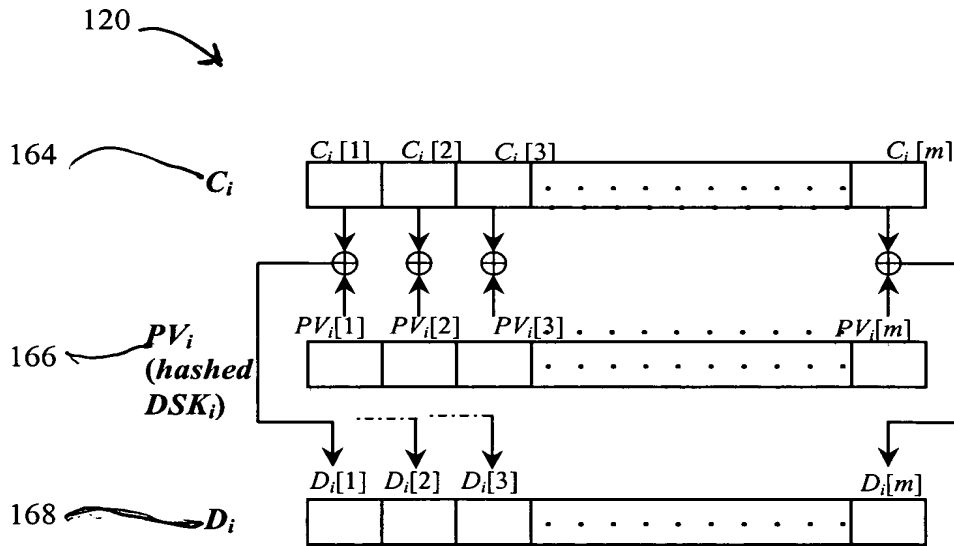


FIG. 13

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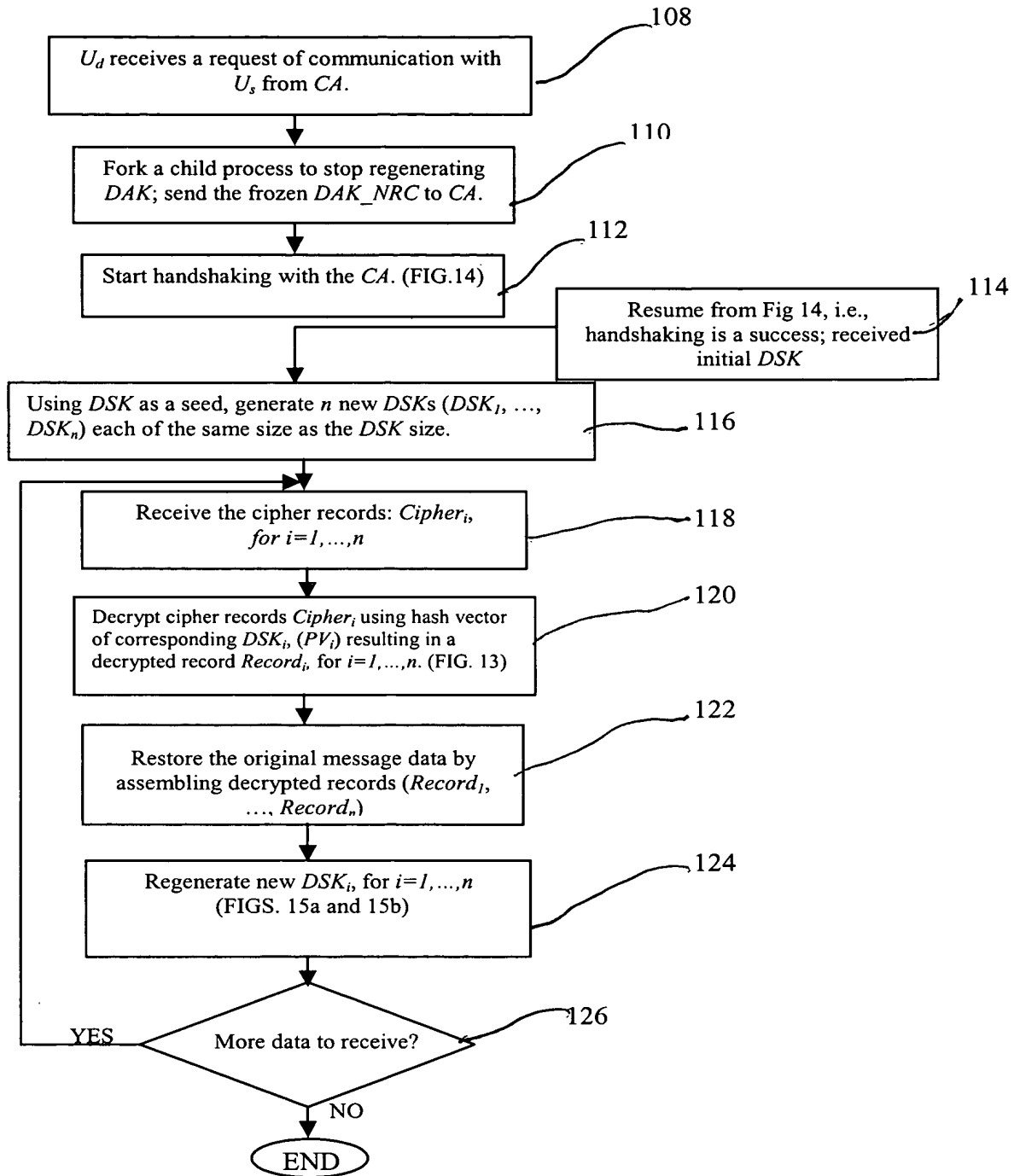


FIG. 12

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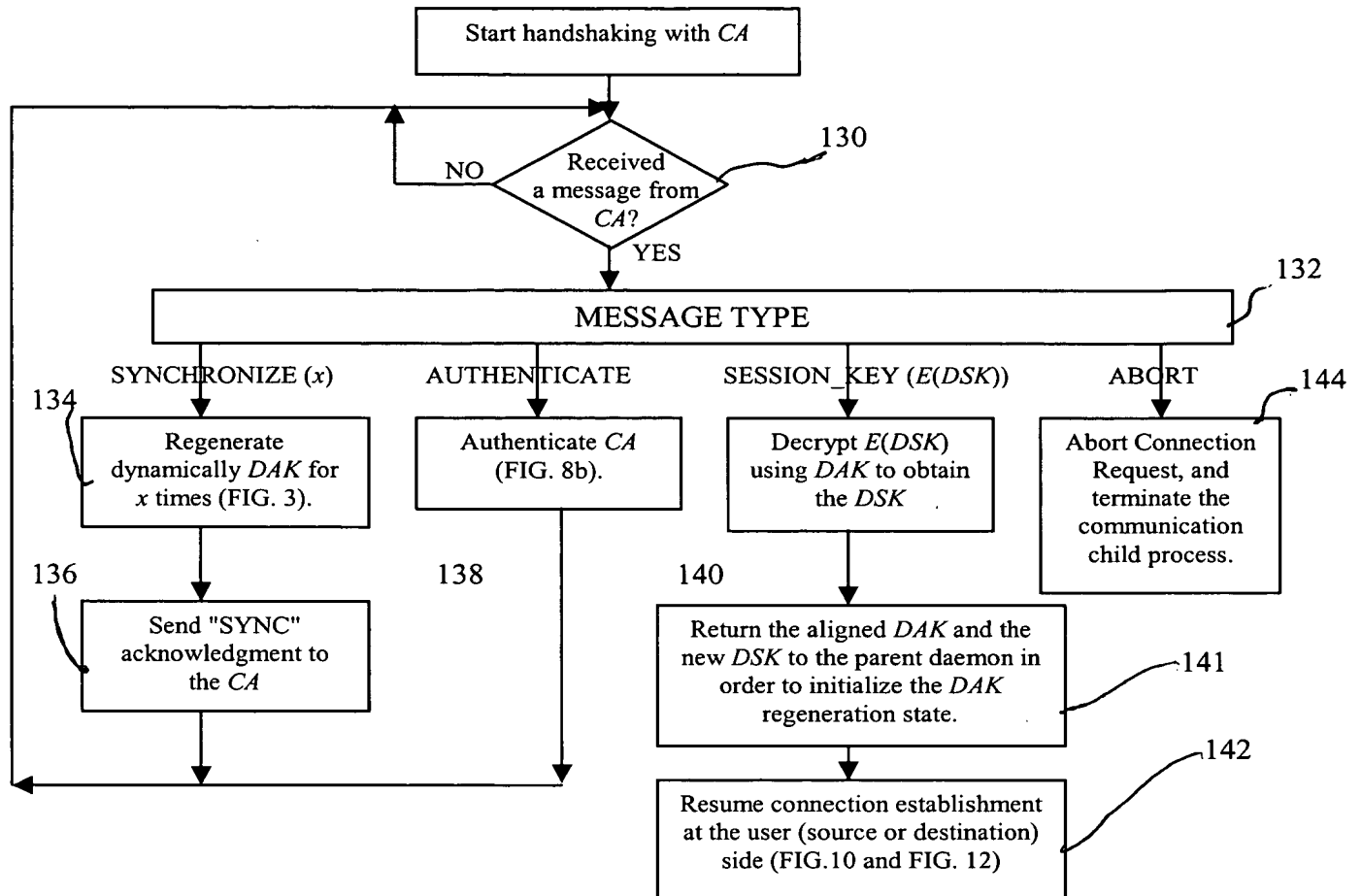


FIG. 14

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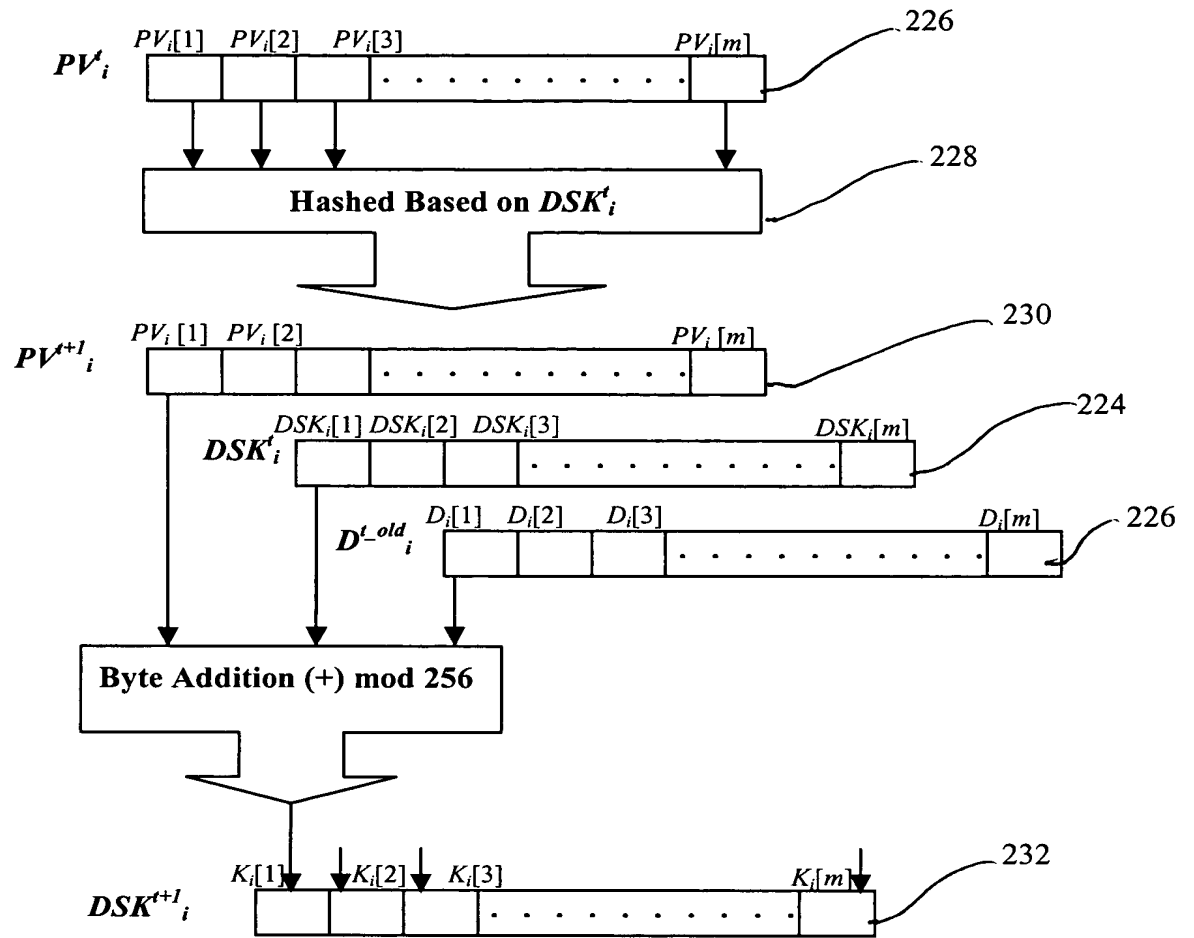
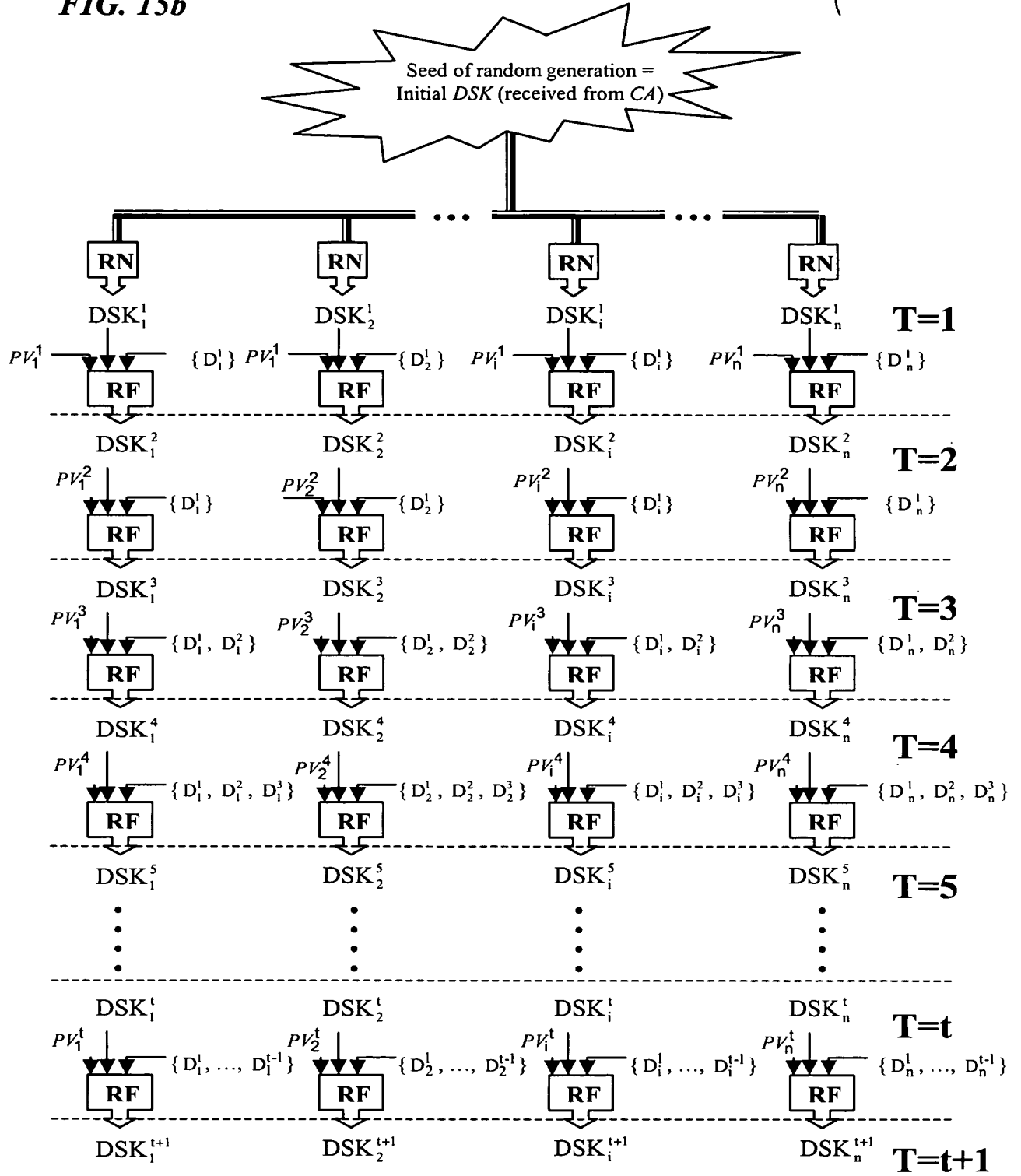


FIG. 15a

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FIG. 15b



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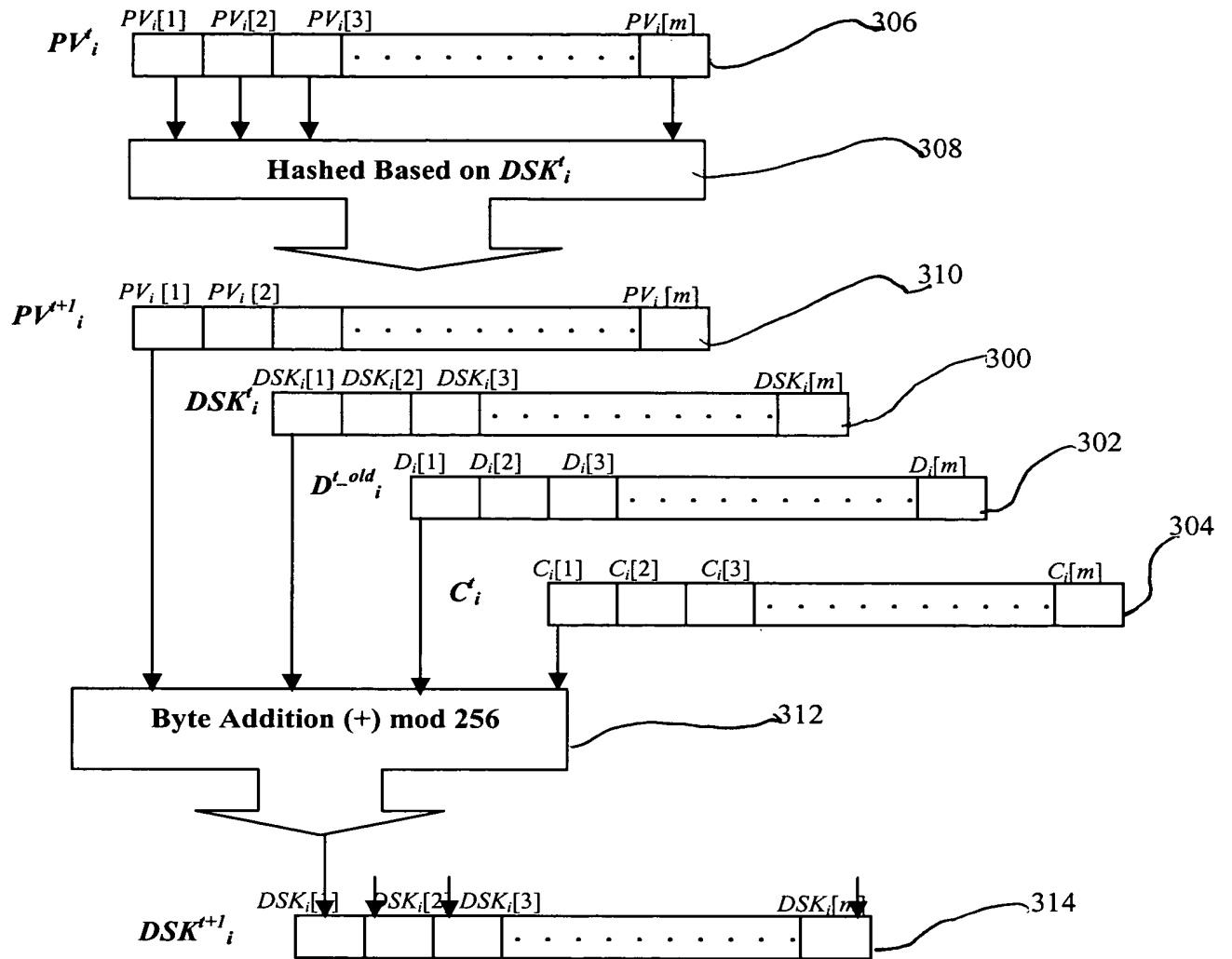


FIG. 16

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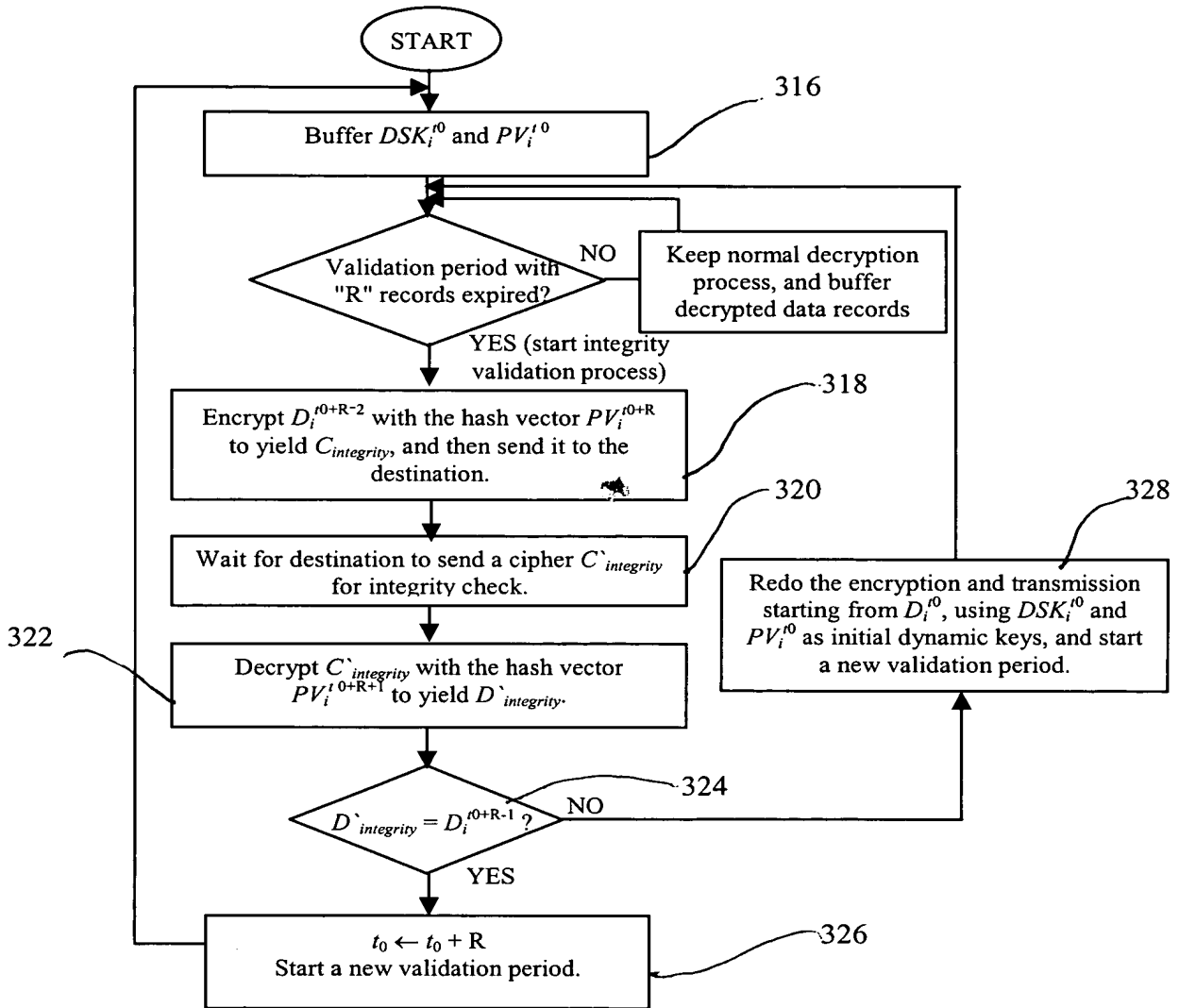


FIG. 17a

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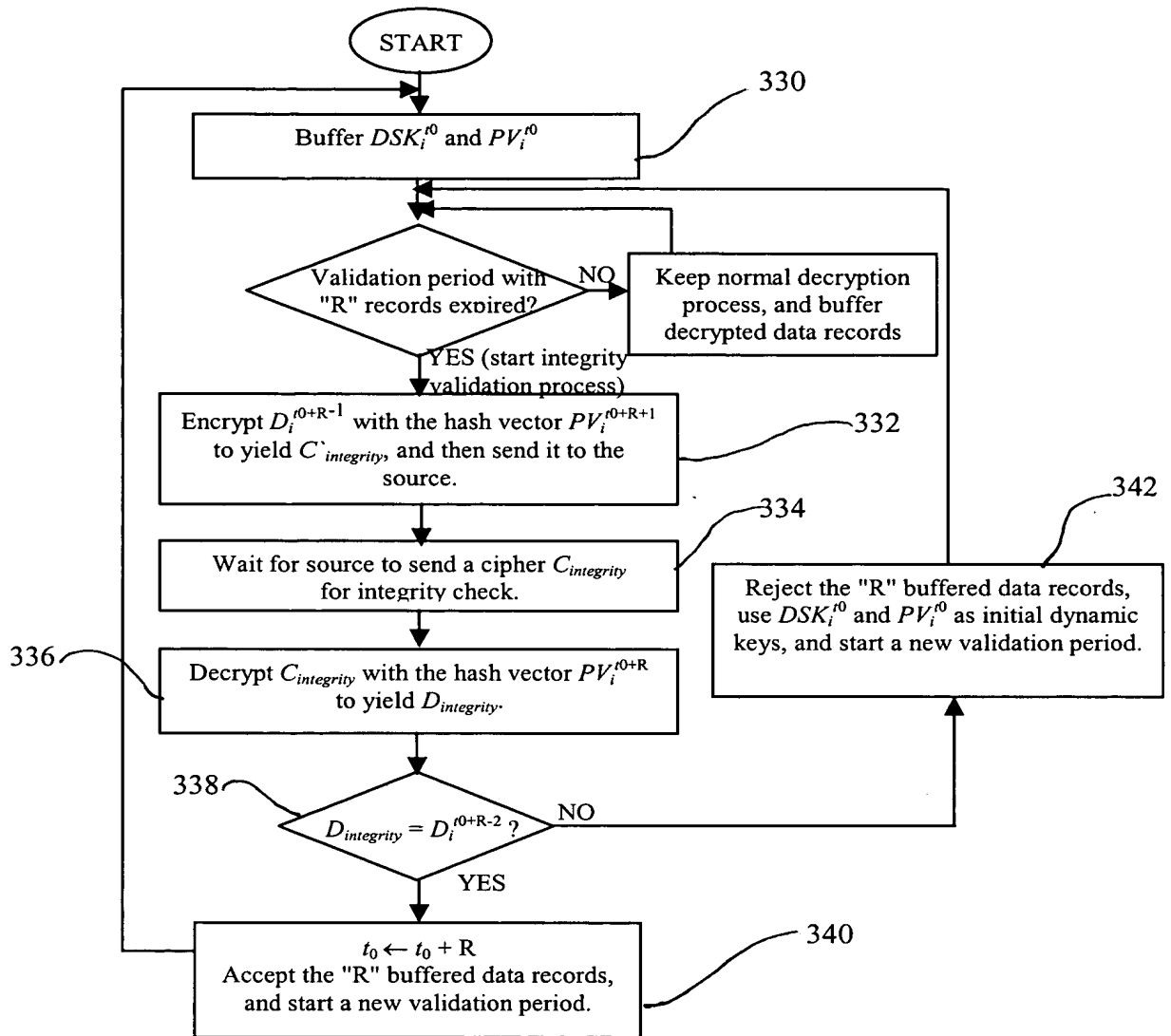


FIG. 17b